

ABSTRACT OF THE DISCLOSURE

A proportional constant adjusting circuit is arranged in the AGC circuit of the optical amplifying apparatus, and the proportional constant of the proportional circuit is continuously adjusted in correspondence to the optical input power monitored by the PD and the logarithmic transformation circuit. The AGC circuit controls the pump LD based on the monitored optical input/output power so as to control the gain of the optical amplifier to be a requested value.